

# PATENT ABSTRACTS OF JAPAN

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## **(54) TDMA VARIABLE SLOT ALLOCATION METHOD**

### **(57)Abstract:**

**PROBLEM TO BE SOLVED:** To quickly cope with fluctuation traffic from a mobile equipment by securing a fixed slot, securing a variable slot when a free slot is present in the variable slot, reporting a secured result to the mobile equipment and processing the data of both fixed and variable slots from the corresponding mobile equipment.

**SOLUTION:** The mobile equipment requests calling to a base station by using an incoming control channel, adds quality information requested by the mobile equipment to a calling request message and transmits it. The base station receives it, and when a calculated minimum required slot number ( $N_s$ ) can be allocated from a free portion within one frame, allocates it to the mobile equipment as a fixed allocation slot. Also, from the maximum transmission speed of the quality information inside the calling message, a maximum slot number ( $N_r$ ) used in one frame by the mobile equipment is calculated. In the case that the maximum slot number can be allocated by the free slots of the variable slots,  $(N_r - N_s)$  pieces of the slots are allocated to the mobile equipment as allocation changeable slots.